US AIR FORCE AIR TRAFFIC CONTROL TOWER DESIGN GUIDE

APPENDIX 2 - DRAWINGS

Note: The drawings are meant as examples and can be modified as the design requires

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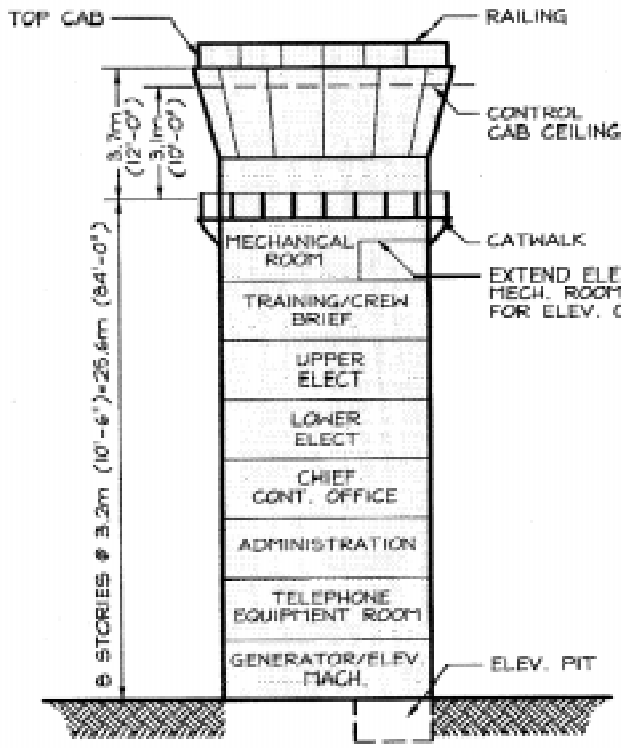


Note: 1. Minimum tower consists of the floors listed below the cab. Floors included are:

- 1st floor - Generator, elevator and tower mechanical room
- 2nd floor - Telephone room
- 3rd floor - Crew briefing room
- 4th floor - Chief controller's office
- 5th floor - Lower equipment room
- 6th floor - Upper equipment room**
- 7th floor - Training/simulator room**
- 8th floor - Mechanical room

2. Tower height is determined at the time of the site survey IAW AFR 86-5 ATCH 2.

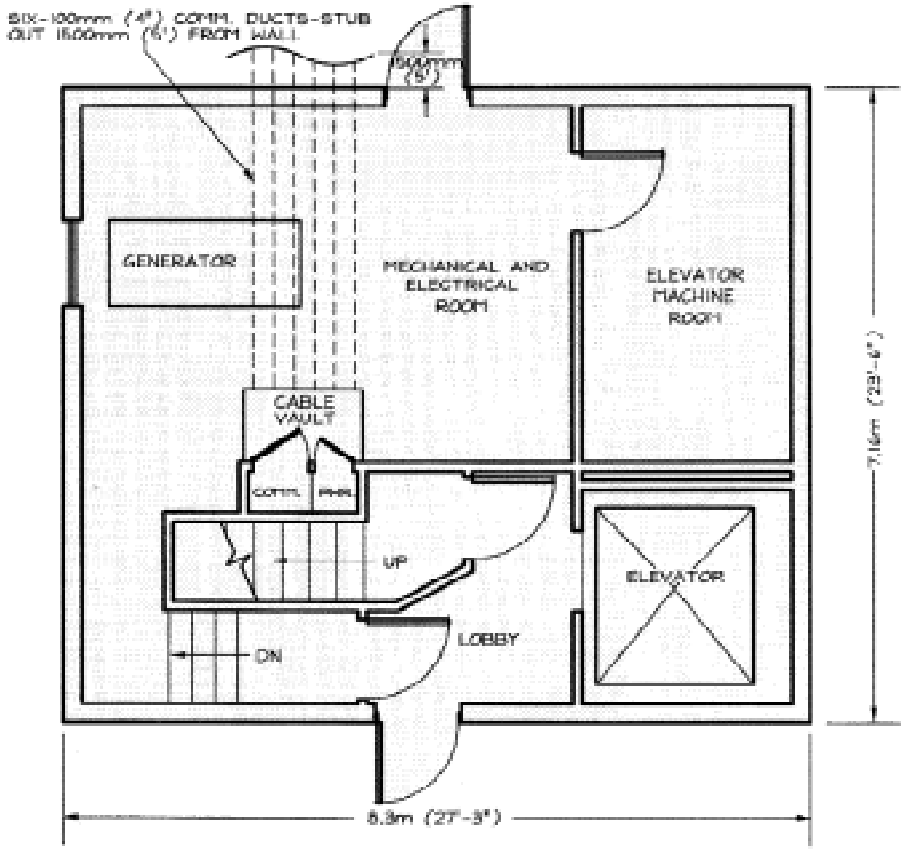
3. The number of Admin. floors is dependent upon tower height. All floors not otherwise identified are finished out for Admin. use as needed.

DRAWING 1 | SCHEMATIC CONTROL TOWER SECTION

* A mechanical courtyard may be incorporated into the design to allow placement of the backup generator external to the tower structure.

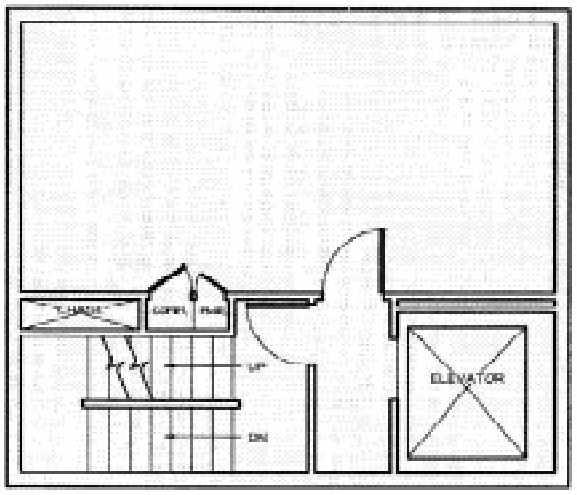
** On locations where special equipment limitations or considerations are encountered, the UPPER EQUIPMENT may be transposed with the TRAINING/SIMULATOR ROOM. The purpose of this transposition is to limit such things as excess cable loss or fixed cable distance between back room equipment and the control head. The TRAINING/SIMULATOR ROOM shall utilize the Typical Floor Plan design, "Drawing 3".

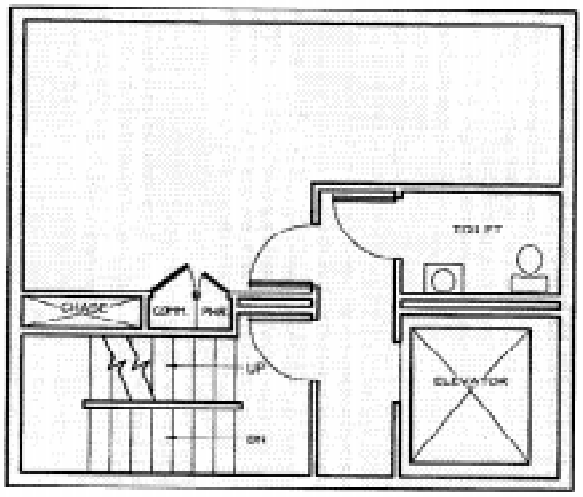
Note: Drawing is meant as an example and can be modified as the design requires.



DRAWING 2 | FIRST FLOOR

Note: Drawing is meant as an example and can be modified as the design requires.





DRAWING 3 | TYPICAL FLOOR PLAN
DRAWING 3A | TYPICAL FLOOR PLAN WITH TOILET

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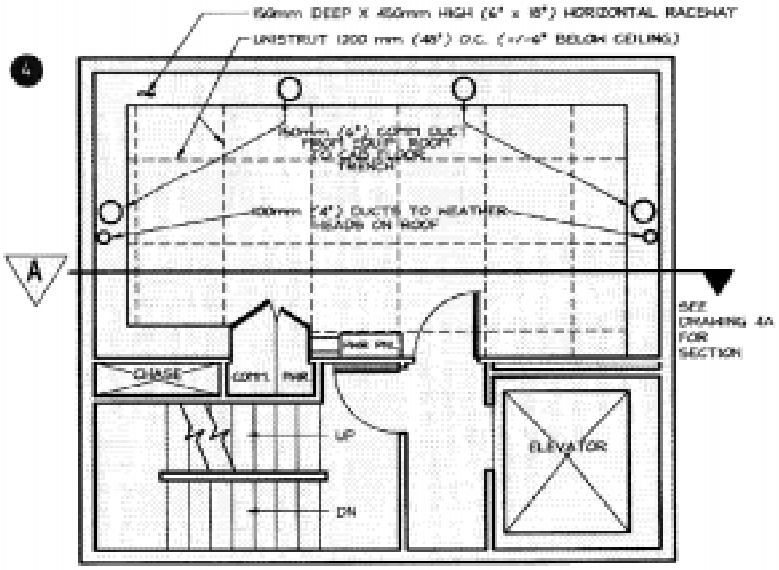

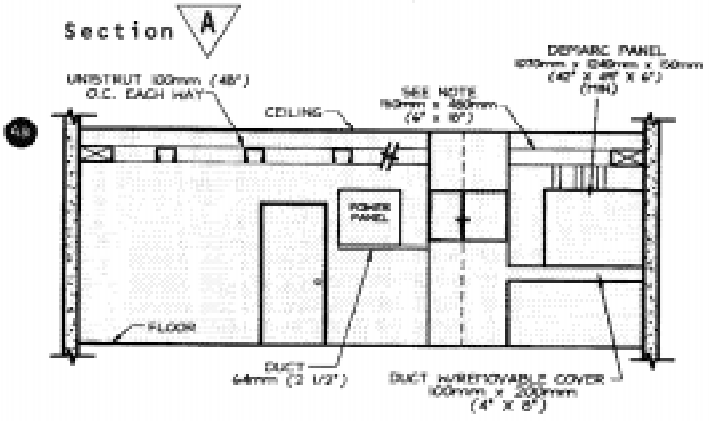

Note: Delete horizontal raceway in lower equipment room. Connect top of Demarc panel to vertical comm. riser with 100mm x 200mm (4" x 8") duct same as bottom duct.

DRAWINGS 4 & 4A | TYPICAL ELECTRICAL EQUIPMENT ROOM [3RD & 4TH LEVEL BELOW CAB]

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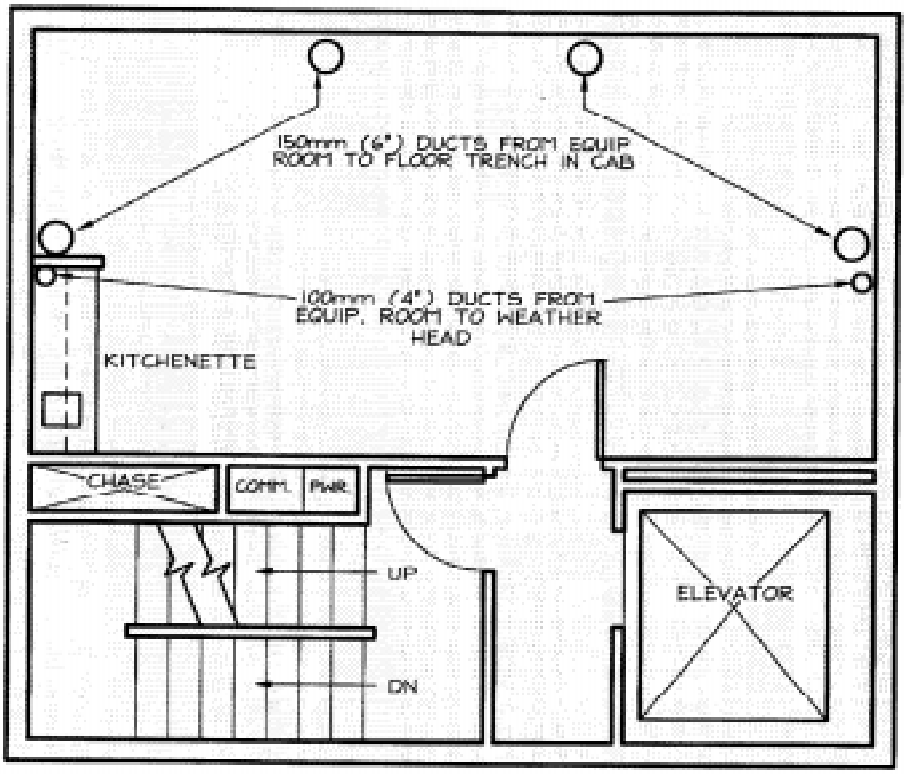

DRAWING 5 | TRAINING/CREW BRIEFING ROOM

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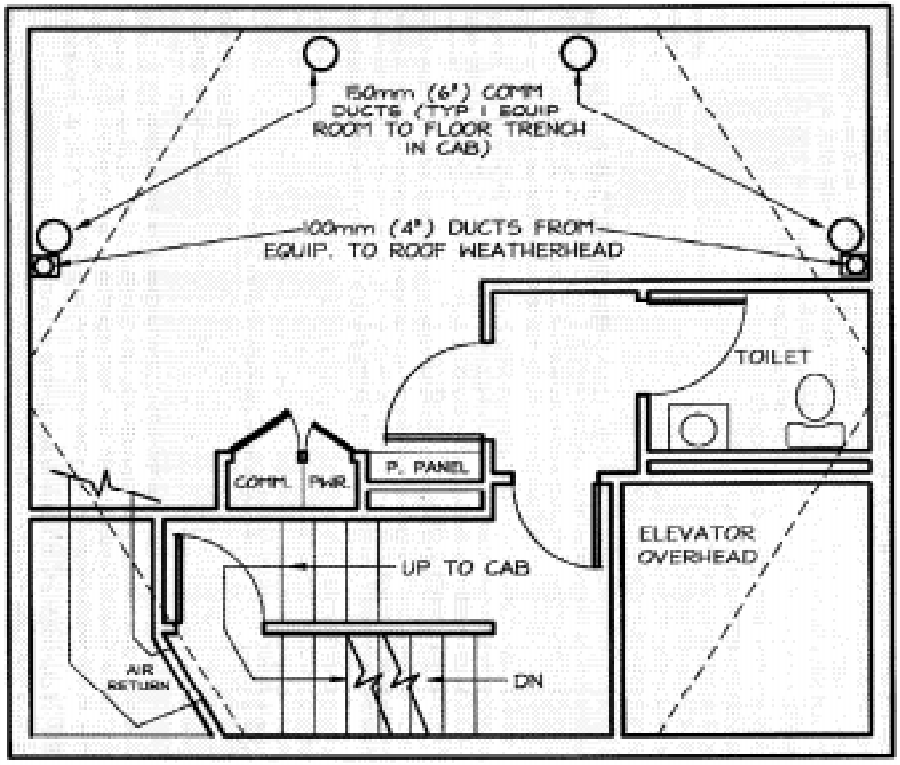

DRAWING 6 | MECHANICAL ROOM [LEVEL BELOW CAB]

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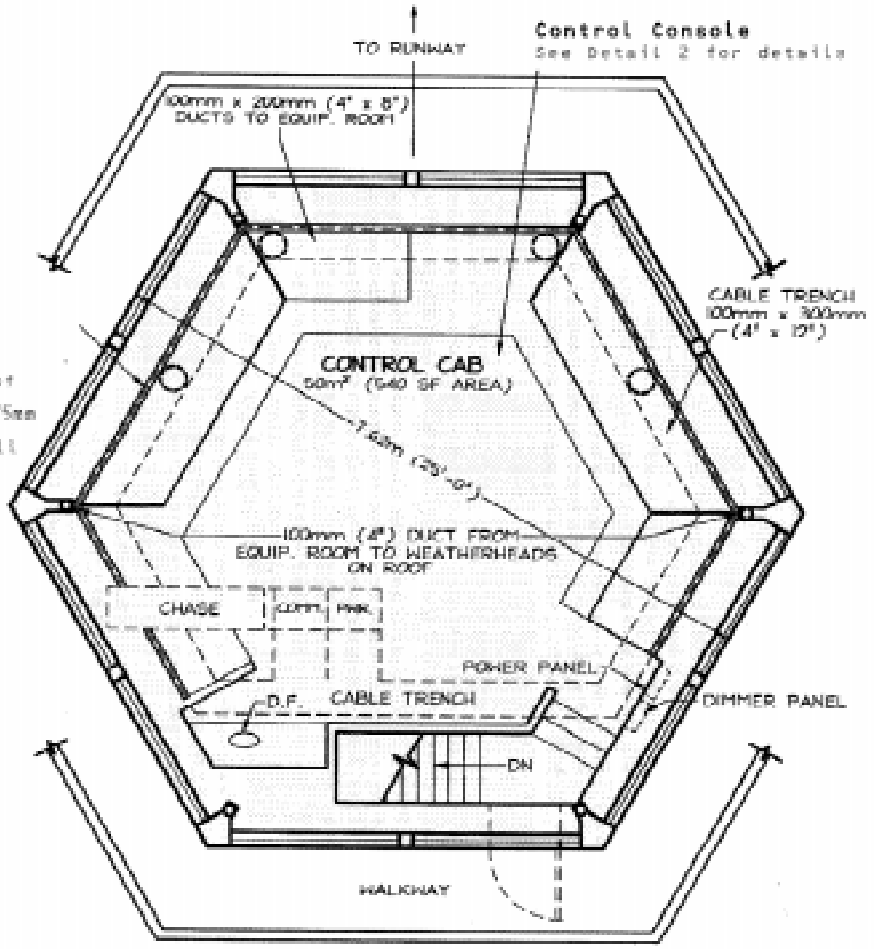
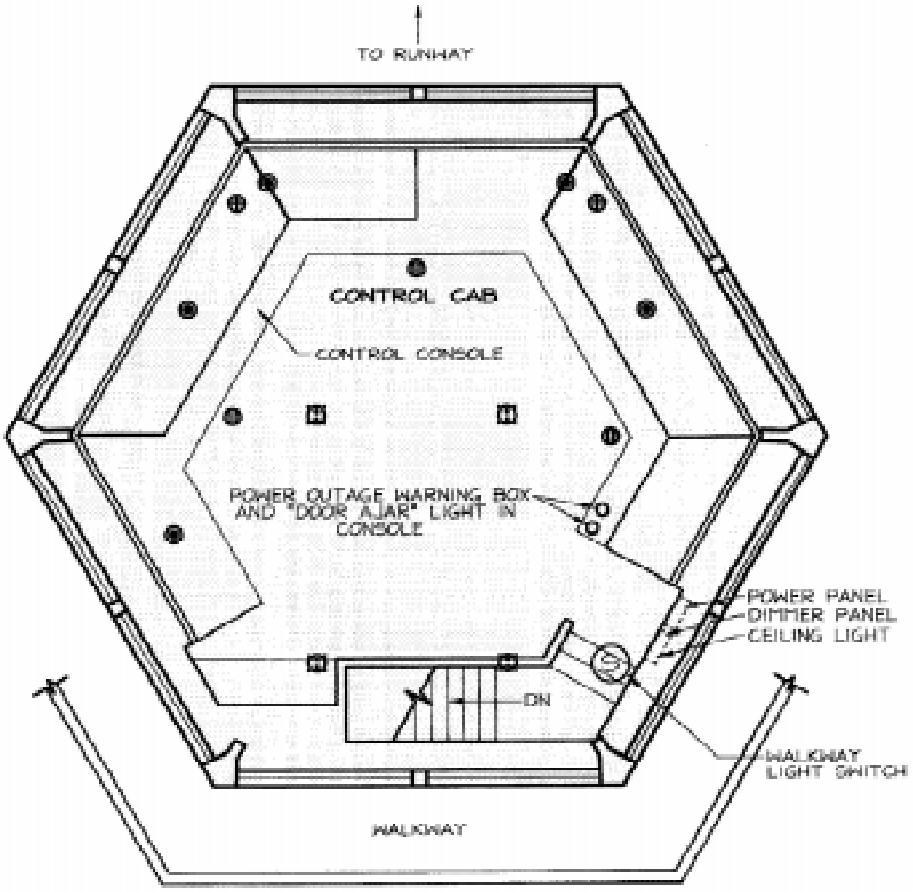


Note: Back of cable trench 75mm (3") from wall

DRAWING 7 | CONTROL CAB

Note: Drawing is meant as an example and can be modified as the design requires.

(Mount console outlets on wall beneath counter top)



SPOT LIGHTS
LIGHT GUN OUTLETS
CEILING LIGHTS
DUPLEX OUTLETS

DRAWING 8 | CONTROL CAB (REFLECTED CEILING PLAN)

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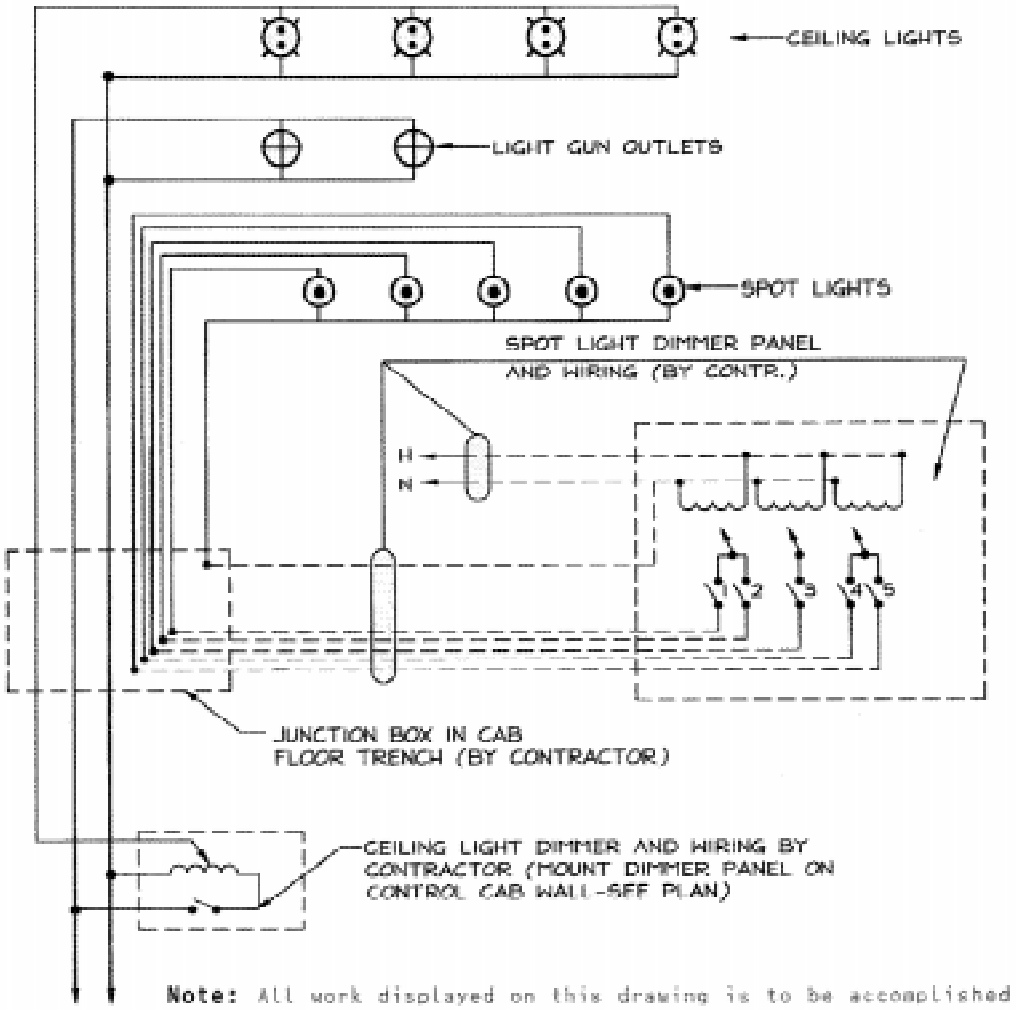

Note: All work displayed on this drawing is to be accomplished by the contractor unless otherwise indicated.

DRAWING 9 | CONTROL CAB WIRING SCHEMATIC

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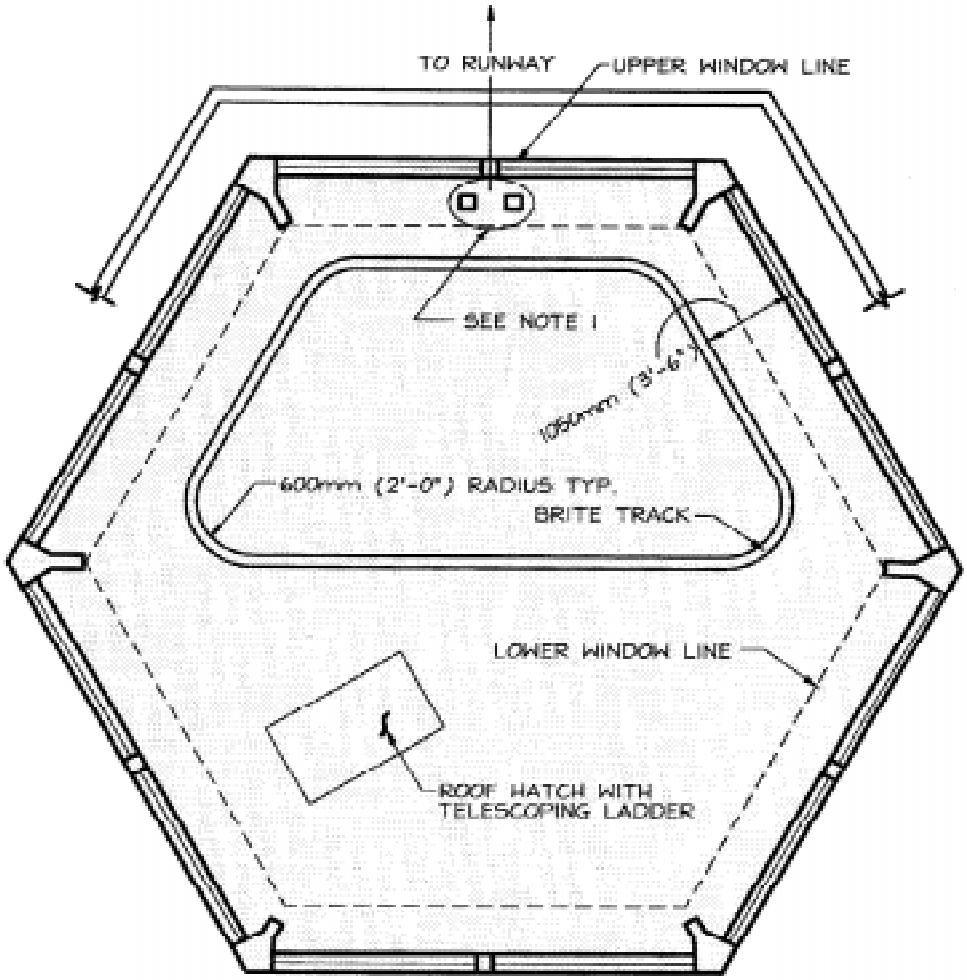

Notes: 1. Provide two 100mm x 100mm (4" x 4") deep boxes, One for power and one for comm. Install two 38mm (1 1/2") conduits between boxes and floor trench.
2. See 1842 EEG/EEISG Sketch SK 86-1.

DRAWING 10 | BRITE TRACK PLAN

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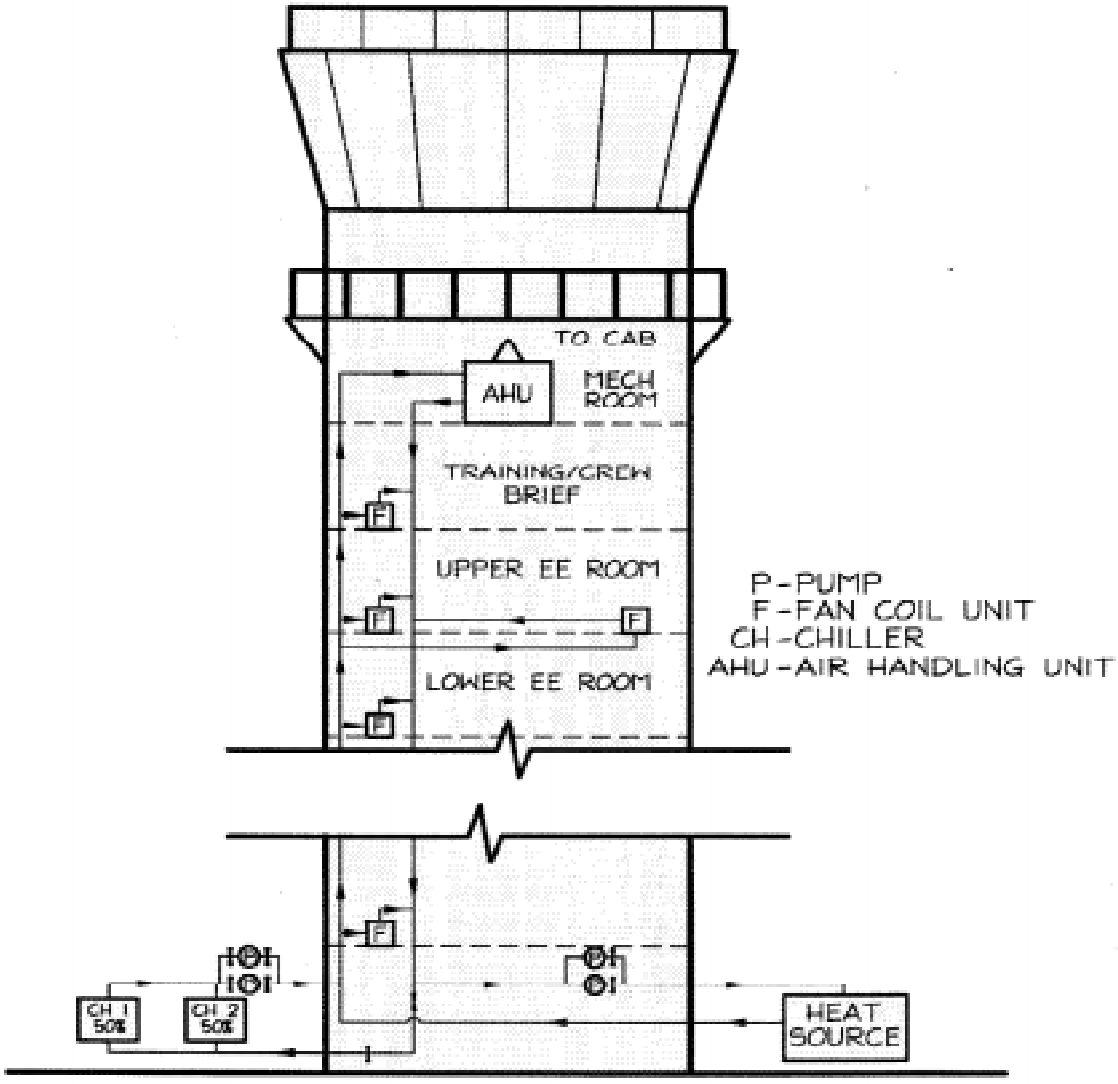

DRAWING 11 | SCHEMATIC HOT & CHILLED WATER PIPING